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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,496	09/08/2003	Paul T. Bender	02103-381001 / AABOSS16	9342
26162	7590	07/08/2008	EXAMINER	
FISH & RICHARDSON PC P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022			SY, MARIANO ONG	
			ART UNIT	PAPER NUMBER
			3683	
			MAIL DATE	DELIVERY MODE
			07/08/2008	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/657,496

**Applicant(s)**

BENDER, PAUL T.

**Examiner**

MARIANO SY

**Art Unit**

3683

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 26 March 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-16, 18-34, 36-41, 44, 45 and 59-72 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-16, 18-34, 36-41, 44, 45 and 59-72 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 03/26/2008
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 26, 2008 has been entered.

2. Claim 63 is objected to because of the following informalities:

Line 1 "comprising" should be --comprising: --,

Line 4 "powered. to perform" should be --powered to perform--.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-9, 11-16, 18-34, 36-41, 44, 45, and 59-61 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "during a failure of a power supply" in lines 2-3. It is unclear and indefinite as to "a power supply of what" Applicant is conveying.

Claim 12 recites the limitation "during a failure of a power supply" in line 5. It is unclear and indefinite as to "a power supply of what" Applicant is conveying.

Claim 19 recites the limitation "during a failure of a power supply" in line 8. It is unclear and indefinite as to "a power supply of what" Applicant is conveying.

Claim 26 recites the limitation "during a failure of a power supply" in line 2. It is unclear and indefinite as to "a power supply of what" Applicant is conveying.

Claim 63 recites the limitation "response to a failure" in line 2. It is unclear and indefinite as to "a failure of what" Applicant is conveying.

***Claim Rejections - 35 USC § 102 / 103***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-3, 5-7, 9, 11-13, 15, 16, 18-22, 24-28, 30-32, 34, 36-41, 59-65, 67-69, 71, and 72 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Song et al. (US 7,087,342).

Song et al. disclosed, as shown in fig. 1-3, a vehicle suspension system comprising: electronic control module 4, actuator 6,8,10,12 comprising switch circuitry 14 powered by energy from movement of the actuator to passively damp the actuator.

Song et al. was silent to disclose "to passively damp the actuator during a failure of a power supply".

Since no specifics as to the failure of what the power supply is, Song et al. disclosed a passive damper that will be operational by itself even the power supply such as the battery fails. Song et al. also disclosed, as shown in fig. 3, several options for the switching circuit.

### ***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 4, 14, 23, 29, 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Song et al.

Song et al. do not specifically disclose the use of solid-state electronics.

It would have been obvious to one of ordinary skill in the art to use solid-state electronics in the device of Song et al. since the use of solid-state electronics have

many well known advantages such as lower power consumption, less cost to make, more reliable and more resistant to vibrations.

9. Claims 8, 33, and 70 are rejected under 35 U.S.C. 103(a) as being unpatentable over Song et al. in view of De Puy (US 4,314,327).

Song et al. failed to disclose the supplemental circuit comprises a bipolar Royer oscillator.

Depuy teaches the use of Royer oscillator.

It would have been obvious to one of ordinary skill in the art to use Royer oscillators, which are well known, into the system of Song et al., as taught by DePuy, as merely a design choice of selecting a well known element to perform a specific function.

10. Claim 45 is rejected under 35 U.S.C. 103(a) as being unpatentable over Song et al. (US 7,087,342) in view of Miller (US 5,296,785).

Song et al. was silent to disclose the use of the actuator during a failure and wherein the electronic control module is powered by a capacitor.

Miller teaches the use of a fail-safe damping rate for the suspension system and the electronic control module powered by a capacitor.

It would have been obvious to one of ordinary skill in the art to provide the system of Song et al. with a fail-safe damping rate for the suspension system and the electronic control module powered by a capacitor, as taught by Miller, in order to avoid failure to the suspension system of the vehicle.

***Response to Arguments***

11. Examiner still maintains the claims are rejected by Song et al., since Song et al. disclosed a passive damper wherein the damper still operational by itself even if the battery fails.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mariano Sy whose telephone number is 571-272-7126. The examiner can normally be reached on Mon.-Fri. from 8:30 A.M. to 2:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Siconolfi, can be reached on 571-272-7124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/MS/

June 25, 2008

/Robert A. Siconolfi/

Supervisory Patent Examiner, Art Unit